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0	For receiving Office use only		
0-1	International Application No.		
0-2	International Filing Date		
0-3	Name of receiving Office and "PCT International Application"		
0-4	Form PCT/RO/101 PCT Request		
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.170)	
0-5	Petition The undersigned requests that the , present international application be	·	
	processed according to the Patent Cooperation Treaty		
0-6	Receiving Office (specified by the applicant)	Japan Patent Office (RO/JP)	
0-7	Applicant's or agent's file reference	ZPF047PCT	
1	Title of Invention	DIRECTION FINDING RADIATION DETECTOR. AND RASIATION MONITORING METHOD AND APPARATUS	
11	Applicant		
II-1	This person is	applicant only	
II-2	Applicant for	all designated States except US	
II-4 <sub>.</sub>	Name	National Institute of Radiological Sciences	
II-5	Address	9-1, Anagawa 4-chome, Inage-ku, Chiba- shi, Chiba 2638555 Japan	
11-6	State of nationality	JP	
II- <b>7</b>	State of residence	JP	
III-1	Applicant and/or inventor		
III-1-1	This person is	applicant only	
III-1-2	Applicant for	all designated States except US	
III-1 <b>-</b> 4	Name	ALOKA Co., Ltd.	
III-1-5	Address	6-22-1, Mure, Mitaka-shi, Tokyo 1818622	
III-1-6	State of nationality	Japan Jp	
c III-1-7	State of residence		
1-7	Total of residence	JP	

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III-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
111-2-2	Applicant for	US only
111-2-4	Name (LAST, First)	SHIRAKAWA, Yoshiyuki
III-2-5	Address	c/o National Institute of Radiological Sciences, 9-1, Anagawa 4-chome, Inage- ku, Chiba-shi, Chiba 2638555 Japan
III-2-6	State of nationality	JP
III-2-7	State of residence	JP
III-3	Applicant and/or inventor	
III-3-1	This person is	applicant and inventor
111-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	YAMANO, Toshiya
111-3-5	Address	c/o ALOKA Co., Ltd., 6-22-1, Mure,
		Mitaka-shi, Tokyo 1818622 Japan
111-3-6	State of nationality	JP
111-3-7	State of residence	JP
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	TAKAYA, Satoshi
IV-1-2	Address	Minami-Shinjuku Bldg., 10-12, Yoyogi 2-chome, Shibuya-ku, Tokyo 1510053 Japan
IV-1-3	Telephone No.	03-3377-2541
IV-1-4	Facsimile No.	03-3377-2660
IV-1-5	e-mail	PDG03444@nifty.com
IV-1-6	Agent's registration No.	100080458
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	MATSUYAMA, Keisuke(100076129); MAKINO, Takehiro(100089015)

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The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the International filing date, for the grant of avery kind of protection available and, where applicable, for the grant of both regional and national patents.   VI-1	<u>v</u>	DESIGNATIONS		
Application   Filing date   21 January 2005 (21.01.2005)	V-1	under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.		
VII-1-2 Number 2005-014578  VI-1-3 Country JP  VI-2 Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):  VII-1 International Searching Authority Chosen  VIII-2 Declarations Number of declarations  Declaration as to the identity of the inventor  VIII-2 Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent  VIII-3 Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application  VIII-4 Declaration of inventorship (only for the purposes of the designation of the United States of America)  VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  IX Check list number of sheets electronic file(s) attached  IX-1 Request (including declaration sheets)  IX-2 Description 10  IX-3 Claims 2  IX-4 Abstract 1	VI-1			
VII-1-3 Country  VII-1 Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):  VIII-1 International Searching Authority Chosen  VIII-1 Declarations  VIII-1 Declaration as to the identity of the inventor  VIII-2 Declaration as to the applicant's entitlement, as at the international filing date, to alphy for and be granted a patent  VIII-3 Declaration of inventorship (only for the purposes of the designation of the United States of America)  VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  IX Check list number of sheets electronic file(s) attached  IX-1 Request (including declaration sheets)  IX-2 Description  IX-3 Claims  IX-4 Abstract  IX-5 Drawings  IVII-1 Dr	VI-1-1	Filing date	21 January 2005 (21.	01.2005)
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Chosen   Dapan Patent Office (TSA/F)		prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as	VI-1	
VIII-1 Declaration as to the identity of the inventor  VIII-2 Declaration as to the applicant's entitlement, as at the international filling date, to apply for and be granted a patent  VIII-3 Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application  VIII-4 Declaration of inventorship (only for the purposes of the designation of the United States of America)  VIII-5 Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  IX Check list number of sheets electronic file(s) attached  IX-1 Request (including declaration sheets)  IX-2 Description  IX-3 Claims  2  IX-4 Abstract  IX-5 Drawings  IX Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	VII-1		Japan Patent Office	(ISA/JP)
inventor  VIII-2  Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent  VIII-3  Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application  VIII-4  Declaration of inventorship (only for the purposes of the designation of the United States of America)  VIII-5  Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  IX  Check list  number of sheets  electronic file(s) attached  IX-1  Request (including declaration sheets)  5  ✓  IX-2  Description  10  -  IX-3  Claims  2  -  IX-4  Abstract  1  ✓  Drawings  10  -  IX-5  Drawings		Declarations	Number of declarations	
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purposes of the designation of the United States of America)  VIII-5  Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  IX  Check list  Request (including declaration sheets)  IX-2  Description  Description  10  -  IX-3  Claims  2  -  IX-4  Abstract  Drawings  Drawings  Drawings  Drawings  Description  10  -  IX-1  IX-2  Drawings  Dra	VIII-3	entitlement, as at the international filing date, to claim the priority of the earlier	-	
disclosures or exceptions to lack of novelty  IX Check list number of sheets electronic file(s) attached  IX-1 Request (including declaration sheets) 5	VIII-4	purposes of the designation of the	-	
IX-1       Request (including declaration sheets)       5       ✓         IX-2       Description       10       -         IX-3       Claims       2       -         IX-4       Abstract       1       ✓         IX-5       Drawings       10       -	VIII-5	disclosures or exceptions to lack of	-	
IX-2       Description       10       -         IX-3       Claims       2       -         IX-4       Abstract       1       ✓         IX-5       Drawings       10       -	IX	Check list	number of sheets	electronic file(s) attached
IX-3       Claims       2       -         IX-4       Abstract       1          IX-5       Drawings       10       -	IX-1	Request (including declaration sheets)	5	<b>✓</b>
IX-4       Abstract       1       ✓         IX-5       Drawings       10       -	IX-2	Description	10	-
IX-5 Drawings 10 -	IX-3	Claims	2	-
	IX-4	Abstract	1	<b>√</b>
IX-7 TOTAL 28	IX-5	Drawings	10	-
	IX-7	TOTAL	28	

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	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	<b>✓</b>	-
IX-17	PCT-SAFE physical media	-	✓
IX-19	Figure of the drawings which should accompany the abstract	2	
IX-20	Language of filing of the international application	Japanese	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)		
X-1-2	Name of signatory		
X-1-3	Capacity		

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/JP
10-6	Transmittal of search copy delayed until search fee is paid	

# FOR INTERNATIONAL BUREAU USE ONLY

11_1	Date of receipt of the record copy by	
11-1	bate of receipt of the record copy by	
	the International Bureau	
	the international bureau	